



Symor Instrument Co.,Ltd

EXPERIENCED
MANUFACTURER & EXPLORER OF
ENVIRONMENTAL
TEST CHAMBERS IN
CHINA



Build Trust Before Do Business

15 years' experience in Environment Simulation Industry

.2 years' warranty

.Advanced manufacturing facilities

.Experienced technical team

About us



Symor Instrument Co.,Ltd is an experienced hi-tech enterprise that integrates state-of-the-art test facilities, R&D, production with marketing and shipping,which is one of the largest manufacturers in climate chamber industry in China.Through 15 years' market competition and striving efforts,we've initially built ISO9001:2008 Quality Management System.Besides,we insist on the principle "Build trust Before Do Business",completely implement the service idea of "stand by customers' side and consider for them",we provide one-stop service ranging from custom-made climatic chambers,full technical support, to shipping and after sale.



We specialize in manufacture and design climate simulation test chambers,including **Temperature Humidity Chamber,Thermal Shock Chamber,Fast Temperature Change Chamber,Salt Spray Chamber,UV Weathering Chamber, Ozone Test Chamber,Walk-in Chamber**,etc.Most products are CE and ISO certified,our technicians are much experienced, and sales team are well trained to serve customers,our climatic chambers are mainly applied on Electronics,Pharmacy,Semiconductor,Automobile,Packaging,Chemical,Telecommunication,Plastic,Aerospace,Photovoltaic Industries,etc.

We export climatic chamber to more than 20 countries.Our professional after-sale team are ready to support you anytime,Symor Instrument Co.,Ltd strives to build cooperative partnership with you in climate simulation industry!

Temperature Test Chamber

Temperature Test Chamber can test products' performance to withstand extreme temperature by simulating harsh climate condition, it can analyze and evaluate whether the products can meet required standard and also provides a good reference in R&D stage, it's widely applied on Electronics, Telecommunication, Automobile, Packaging, Aerospace, Electric products, etc.



Specification

Model	TGDJ-50	TGDJ-100	TGDJ-150	TGDJ-250	TGDJ-500	TGDJ-800	TGDJ-1000
Internal Size W*D*H (cm)	35×32×45	50×40×50	50×50×60	60×50×81	80×70×90	100×80×100	100×100×100
External Size W*D*H(cm)	95×95×140	105×103 ×175	105×110× 185	112×110×201	135×130×220	156×141×224	156×161×224
Temperature Range	Model A :-20°C~+150°C Model B: -40°C~+150°C Model C: -70°C~+150°C						
Temperature Fluctuation	≤±0.5°C						
Temperature Uniformity	≤2°C						
Heating Rate	2~3°C/min						
Cooling Rate	0.7~1°C/min						
Internal Material	Anti-corrosion SUS#304 mirror stainless steel						
External Material	Reinforced Steel plate with electrostatic spraying						
Insulation	Superfine fiberglass wool / polyurethane foam						
Programmable Controller	5.7 inch TEMP880 LCD controller or temi2700 LCD controller						
Circulation System	Low-noise, high temperature resistant motors, single cycle, long axis and stainless steel multi-leaf type centrifuge fan						
Heating System	NiCr heater, independent system						
Refrigeration System	France "TECUMSEH" Hermetic Refrigeration Compressors ,Unit cooling mode / Dual cooling mode (air-cooled),Refrigerant R404A/R23						
Protection Devices	Leakage and outage protection, compressor over-pressure, overheat, over-current protection, overload fusing protection, audio signal alarm						
Power Supply	AC220V·50HZ/380V·50HZ or customized						

Controller

Temi880 touch screen programmable controller

Resolution: temperature: $\pm 0.1\text{ }^{\circ}\text{C}$; humidity: $\pm 1\%\text{RH}$

Program:99 programs and 999 segments

RS232 communication port



Compressor

Original France imported "Tecumseh" compressor

Single compressor for $-20\text{ }^{\circ}\text{C}$, Double compressors(cascade) for $-40\text{ }^{\circ}\text{C}$ and $-70\text{ }^{\circ}\text{C}$



Pictures

working room



circuits



magnetic valve



test hole



Temperature Humidity Test Chamber

Temperature Humidity Test Chamber can test products' performance to withstand extreme temperature by simulating harsh climate condition, it can analyze and evaluate whether the products can meet required standard and also provides a good reference in R&D stage in order to manufacture qualified products, it's widely applied on Electronics, Aerospace Telecommunication, Automobile, Packaging, Electric products, etc.



Specification

Model	TGDS-50	TGDS-100	TGDS-150	TGDS-250	TGDS-500	TGDS-800	TGDS-1000
Internal Size W*D*H (cm)	35×32×45	50×40×50	50×50×60	60×50×81	80×70×90	100×80×100	100×100×100
External Size W*D*H(cm)	95×95×140	105×103×175	105×110×185	112×110×201	135×130×220	156×141×224	156×161×224
Temperature Range	Model A : -20°C~+150°C Model B: -40°C~+150°C Model C: -70°C~+150°C Temperature Fluctuation: ≤±0.5°C Temperature Uniformity: ≤2°C						
Heating Rate	2~3°C/min						
Humidity Range	20% ~ 98% R.H(10%RH is available) Humidity Bias: +2/-3% R.H						
Cooling Rate	0.7~1°C/min						
Internal Material	Anti-corrosion SUS#304 mirror stainless steel						
External Material	Reinforced Steel plate with electrostatic spraying						
Insulation	Superfine fiberglass wool / polyurethane foam						
Controller	5.7 inch TEMP880 LCD controller or temi2700 LCD programmable controller						
Circulation System	High temperature resistant motors, single cycle, long axis and stainless steel multi-leaf type centrifuge fan						
Humidification	Shallow slot humidification, steam humidification mode, automatic water supply with shortage alarm						
Dehumidification	Refrigeration dehumidification mode						
Heating System	NiCr heater, independent system						
Refrigeration System	France "TECUMSEH" Hermetic Compressors, Unit cooling mode/Dual cooling mode (air-cooled),Refrigerant R404A/R23						
Security Devices	Leakage and outage protection, compressor over-pressure, overheat, over-current protection, overload fusing protection, audio signal alarm, water shortage alarm						
Power Supply	AC220V·50HZ/380V·50HZ or customized						

Controller

Temi880 touch screen programmable controller
Resolution: temperature: $\pm 0.1^{\circ}\text{C}$; humidity: $\pm 1\%\text{RH}$
Program:99 programs and 999 segments
RS232 communication port



Compressor

Original France imported "Tecumseh" compressor
Single compressor for -20°C , Double compressors(cascade) for -40°C and -70°C



Pictures

working room



circuits



heater



test hole

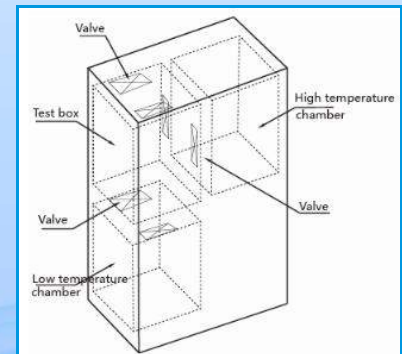
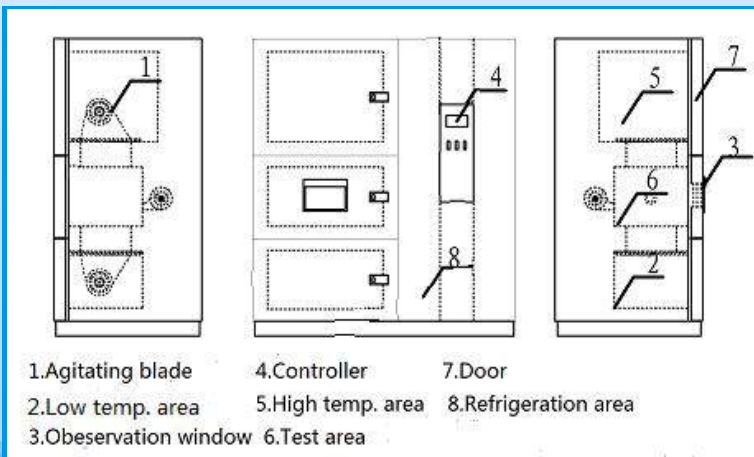
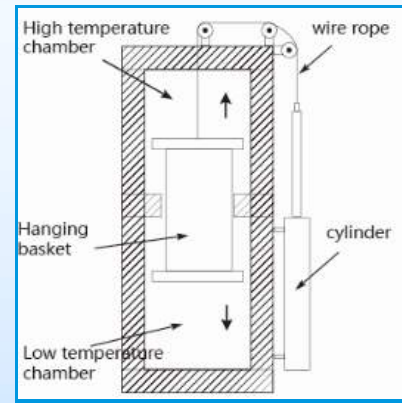
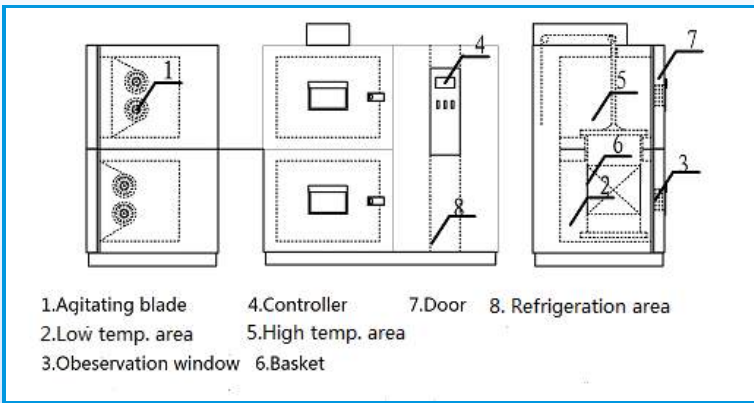


Thermal Shock Test Chamber

Thermal Shock Chamber can test products' performance to withstand continuous high low temperature cycles, the purpose is to analyze and evaluate products' safety performance and screen unqualified ones, it can finalize products' chemical changes/physical damage caused by heat expansion and cold contraction principle, the test is mandatory from precise ICs to mechanical parts.



Drawing



Specification

Model	T3-100S	T3-210S	T3-300S	T3-500S
Inner Size (W*D*H)mm	500*500*400	600*700*500	780*700*550	800*900*700
Outer Size (W*D*H)mm	1950*1150*1950	2100*1350*2200	2250*1350*2300	2250*2500*2150
Model	TS2-162	TS2-340	TS2-500	
Inner Size (W*D*H)mm	450*450*450	600*600*600	800*800*800	
Outer Size (W*D*H)mm	1350*1250*1450	1480*1450*1700	1700*1650*2010	
Basket Size (W*D*H)mm	250*250	400*400	600*600	
Pre-heat Room	Pre-heating Temp.(upper limit)	200℃		
	Heating Time	RT~+200℃ /about 40min (unload)		
Pre-cooling Room	Pre-cooling Temp.(lower limit)	-75℃		
	Cooling Time	RT~-70℃ /about 90min (unload)		
Working Chamber	Thermal Shock Temp. Range	-20℃,-40℃,-55℃~+150℃		
	Temp Fluctuation	≤±0.5℃		
	Temp. Bias	≤±3℃		
Transfer Time & Recovery Time		≤15S	≤5min	
Temperature Recovery Condition & Load-bearing	T3-100S	10kg		
	T3-210S	15kg Exposed 30min under +150℃,exposed 5min under RT, exposed 30 min		
	T3-300S	25kg under -55℃		
	T3-500S	35kg		
	TS2-162,TS2-340, TS2-500	Exposed 30min under +150℃ ,exposed 5min under RT, exposed 30 min under 55℃,25kg specimen		
Material	Inner Material	Stainless steel (SUS304)		
	Exterior Material	Double side steel with surface painting		
	Insulation Material	Ragid polyurethane foam and glass wool		
Refrigeration System	Cascade refrigeration system, Germany imported "Bock" compressor			
Controller	Imported touch screen programmable controller,RS232 communication port			
Accessories	2 zone&3 zone: Over temperature protector, halogen light, cumulative timer,castors,4 adjustable holders 3 zone: two SUS#304 shelves, one 50mmΦcable hole			
Safety Device	Overload protection: compressor over-pressure protection, over-current protection, short phase protection, water shortage protection, low voltage protection, independent over-temperature protection, etc.			
Power Supply	AC380V 50HZ			

Constant Temperature Humidity Test Chamber

Constant Temperature Humidity Test Chambers test products' performance to withstand extreme temperature and humidity by simulating harsh climate conditions, it can analyze and evaluate whether the components and materials

can bear long-term high low temperature storage, transportation, and using at terminal market without damage.



Controller

Temi880 touch screen programmable controller

RS232 communication port



Working Chamber

Mirror stainless steel sus#304



Compressor

Original France imported "Tecumseh" compressor



Specification

Model	THS-50	THS-100	THS-150	THS250	THS-500	THS-800	THS-1000
Internal Size W*D*H (cm)	35×32×45	50×40×50	50×50×60	60×50×81	80×70×90	100×80×100	100×100×100
External Size W*D*H(cm)	95×95×140	105×103×175	105×110×185	112×110 ×201	135×130× 220	156×141×224	156×161×224
Temperature Range	0°C~+100°C						
Temperature Fluctuation	≤±0.5°C						
Temp. Uniformity	≤2°C						
Humidity Range	20% ~ 98% R.H						
Humidity Bias	+2/-3% R.H						
Heating Rate	2~3°C/min						
Cooling Rate	0.7~1°C/min						
Internal Material	Anti-corrosion SUS#304 mirror stainless steel						
External Material	Reinforced steel plate with electrostatic spraying						
Insulation	Superfine fiberglass wool / polyurethane foam						
Door Sealing	Two layers, high low temperature aging resistant rubber sealing gasket						
Programmable Controller	5.7 inch Temi880 LCD controller or temi2700 LCD controller						
Circulation System	Low-noise motors, single cycle, long axis and stainless steel multi-leaf type centrifuge fan						
Water Supply	Automatic water supply, with water shortage alarm function						
Humidification Mode	Shallow slot humidification, electric heating steam humidification mode						
Dehumidification Mode	Refrigeration dehumidification mode						
Heating System	NiCr heater, independent system						
Refrigeration System	France "TECUMSEH" Hermetic Refrigeration Compressors ,Unit cooling mode / Dual cooling mode (air cooled),Refrigerant R404A/R23						
Security Devices	Leakage and outage protection, compressor over-pressure, overheat, over-current protection, overload fusing protection, audio signal alarm, water shortage alarm						
Standard Configuration	One observe window(Resistant to high and low temperature, toughened glass window), a humidity proof fluorescent lamp, two shelves, Φ 50mm test hole						
Power Supply	AC220V·50HZ/380V·50HZ						

Desktop Temperature Humidity Test Chamber

Desktop High Low Temperature Damp Heat Climatic Chamber test products' ability to withstand extreme temperature and humidity by simulating different climate conditions, the purpose is to make qualified products, it can evaluate whether the components and materials can bear long-term high low temperature storage, transportation, and using at terminal market without damage. it's specially designed for narrow space.



Temi580 programmable LCD controller

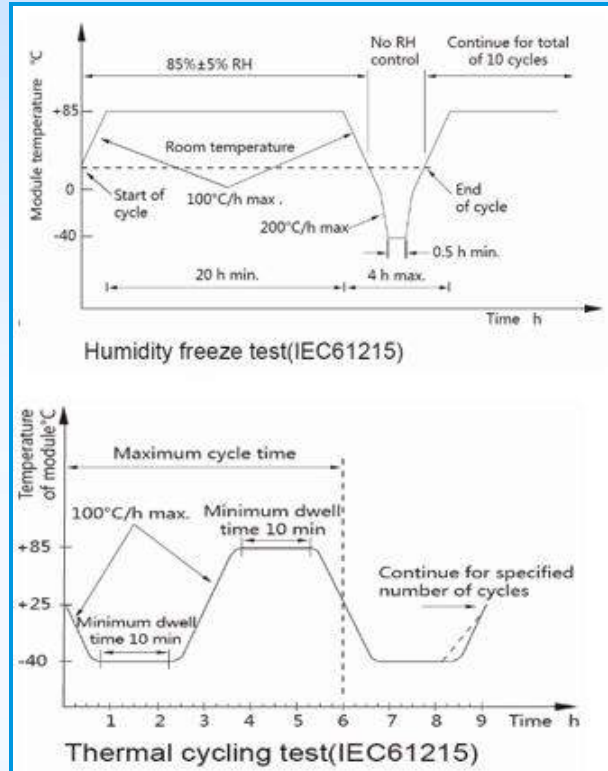


Specification

Model	TGDS-50
Internal Size W*D*H (mm)	350×320×450
External Size W*D*H(mm)	600×1300×1000
Temperature Range	Model A :-20°C~+150°C Model B: -40°C~+150°C Model C: -70°C~+150°C
Humidity Range	20% ~ 98% R.H
Heating Rate	2~3°C/min
Cooling Rate	0.7~1°C/min
Material	Internal: Anti-corrosion SUS#304 mirror stainless steel External: Reinforced steel plate with electrostatic spraying
Insulation	Superfine fiberglass wool / polyurethane foam
Programmable Controller	Temi580 touch screen controller
Circulation System	Low-noise motor, single cycle, long axis and stainless steel centrifuge fan
Humidification Mode	Shallow slot humidification, electric heating, steam humidification
Dehumidification Mode	Refrigeration dehumidification
Refrigeration System	France "TECUMSEH" Hermetic Refrigeration Compressors,R404A/R23 Refrigerant
Heating System	NiCr alloy heater, independent system
Security Devices	Leakage and outage protection, compressor over-pressure, overheat, over-current protection, overload fusing protection, audio signal alarm, water shortage alarm
Standard Configuration	One observe window(Resistant to high low temperature with toughened glass window), a fluorescent lamp, two shelves
Power Supply	AC220V·50HZ

Humidity Freeze, Thermal Cycling Chamber

PV Module Test Chamber follows International standard IEC61215 and IEC61646. It's mainly used to test solar modules' performance under high low temperature, alternating damp heat, such as single crystalline silicon modules, ground use crystalline silicon modules, ground use thin film modules, etc, it can evaluate the quality and determine the reliability and life time of photovoltaic modules.

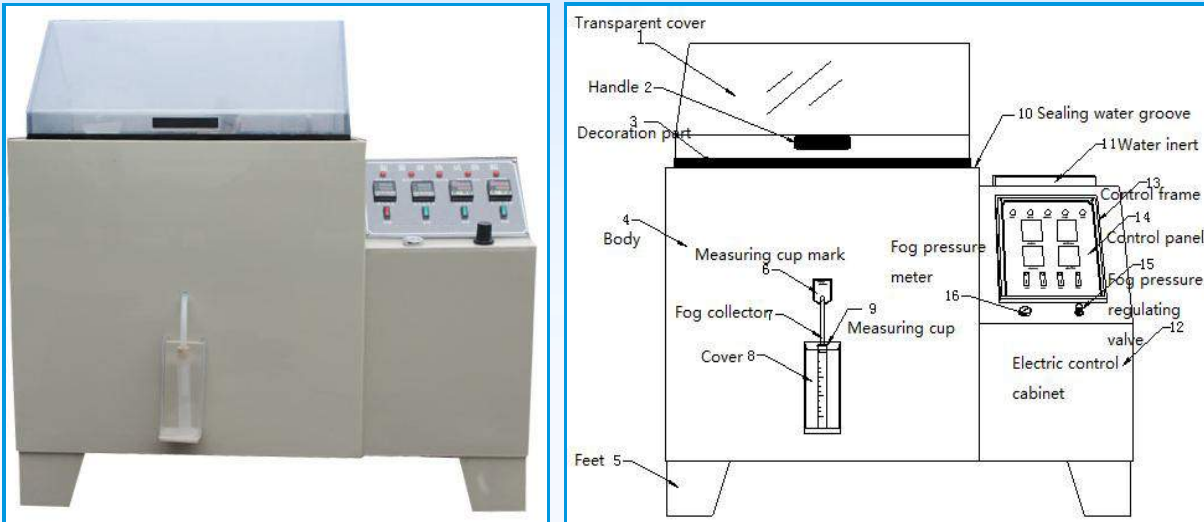


Specification

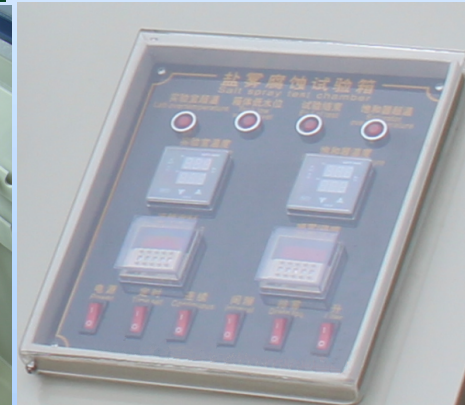
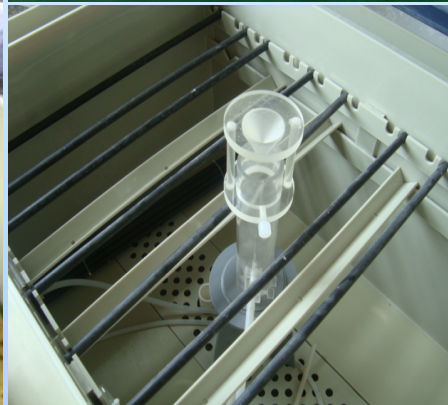
Model	Customized as required
Temperature Range	-40°C -100°C
Humidity Range	30%-98%R·H (40-90°C)
Alternating Humidity Range	75%-95%R·H(25°C-85°C)
Temperature Fluctuation	≤±0.5°C
Temperature Uniformity	≤±2.0°C
Heating and Cooling Rate	1.0-3.4/min (Linear) (linear adjustable range:-40°C-85°C)
Controller	Programmable touch screen Temi880 controller
Temperature Bias	+2 -3%R·H
Refrigeration	Cascade refrigeration system, France "Tecumseh" hermetic compressor or Germany "Bock" semi-hermetic compressor
Heating	Far infrared Nickel alloy heater(3KW*3)
Humidifying	Boiler evaporative humidifier
Internal Chamber	SUS#304 mirror stainless steel
External Chamber	Galvanized steel with powder coating
Insulation	Superfine glass wool or PU foam
Air Circulation	Long axis fan with multi leaves, resistant to high low temperature
Module Bracket	Insulating material, can lift with a clamping spring, can mount different size of modules

Salt Spray Test Chamber

Salt Spray Corrosion Test Chamber tests products' protective layers' resistance to salt spray corrosion, the chamber is widely applied on outer shell of electronics, metal materials and industrial products, the chamber is made by imported reinforced PP plates, which are aging resistant, anti-corrosion, and easy to clean without leakage. It adopts tower-type salt spraying system with salt fluid preheating function, the nozzle can spray without crystallizing, salt spray can be evenly distributed, customer can freely adjust salt deposition.



Pictures

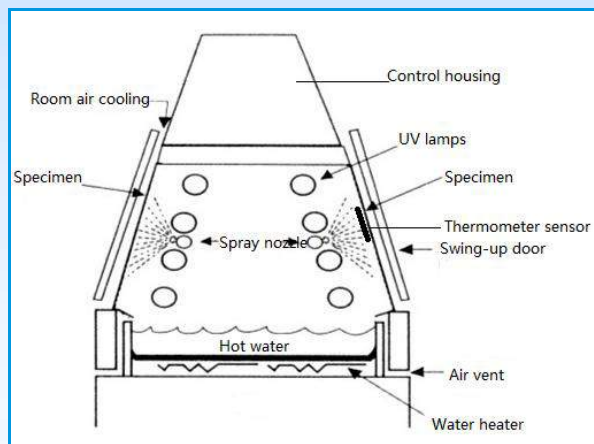


Specification

Model	TQ-150	TQ-250	TQ-750	TQ-010	TQ-016	TQ-020
Capacity	108L	270L	495L	663L	816L	1080L
Internal Size (W*D*H,MM)	600*450*400	900*600*500	1100*750*500	1300*850*600	1600*850*600	2000*900*600
Outer Size (W*D*H,MM)	1150*560 *1100	1400*850 *1200	1650*950 *1300	2000*1100 *1400	2400*1150 *1500	2800*1200 *1500
Temperature Range	RT+5 °C ~ +55 °C (PID control)					
Temperature Uniformity	≤2°C					
Temperature Fluctuation	± 0.5°C					
Spray Quantity	1~2 ml / 80cm ²					
Spray Mode	Continuous, periodic(Alternative)					
Test Timing Range	1~99(S,M,H)					
Salt Fluid Collection	Standard funnel and hopper					
Salt Fluid Preheat	Preheat salt fluid to keep same temperature as test chamber					
Spray System	Tower type spray device ,no crystal nozzle					
Controller	LED controller(PID+SSR)					
Outer Material	Import PP board, anti-corrosion, high temperature resistant ,aging resistant and high-intensity					
Internal Material	Import PP board, anti-corrosion, high temperature resistant ,aging resistant and high-intensity					
Tank Cover Material	Import transparent PVC board, anti-corrosion, high-intensity					
Sealing	Watertight sealing structure without salt mist overflow					
Protection Devices	Over-temperature, default phase protection, water shortage protection					
Supply Voltage	AC220V·50HZ/380V·50HZ					
Standard Configuration	One “V” type sample holder, one pole, two nozzles, two funnels, two measuring cups					
Remark	Humid salt spray chamber, cyclic salt fog test chamber are also available(humidity:85%-95%RH)					
Working Environment	5°C ~+35°C,≤85%RH					

Ultraviolet Weathering Test Chamber

UV-Lamp Weathering Test Chamber takes fluorescent UV lamps as light source to simulate the UV irradiation in natural light and condensation to conduct accelerated weathering test to the materials, It simulates the UV, rain, high temperature, humidity, condensation, darkness and other environmental conditions, combine them together, and carry them out automatically.



Pictures



Specification

Model	TA-UV
Internal Size(W*D*H)MM	1170*450*500
External Size(W*D*H)MM	1280*580*1350
Temperature Range	RT+10°C ~ +70°C ±2°C
Humidity Range	≥95%RH ±2%
Black Panel Temperature	BPT 40 °C ~ 65°C
Lamp Distance (center point-center point)	70mm
Specimen and Lap Distance	50mm
Humidity Range	≥95% R.H
UV Wave Length	290nm-400nm
Irradiation Source	Fluorescent UV lamps (8) - 40 W
Irradiation Control	0.3 ~ 20 W/m ² (340 nm / 313 nm, Double channel radiometer
Exposure	Moisture condensation, UV radiation
Water Spray	Spraying water
Protection Devices	Over temperature, short phase, water shortage, over-current, etc.
Power Supply	380V 50/60HZ

Fast Temperature Change Rate Climatic Chamber

Fast Temperature Change Rate Climatic Chamber can test products' performance by simulating rapid temperature change, the purpose is to screen unqualified products caused by defective design, manufacturing or wrong artwork in early stage, to improve products quality, minimize repair rate, **Fast Temperature Change Climatic Chamber** is an effective solution for environmental stress screening.

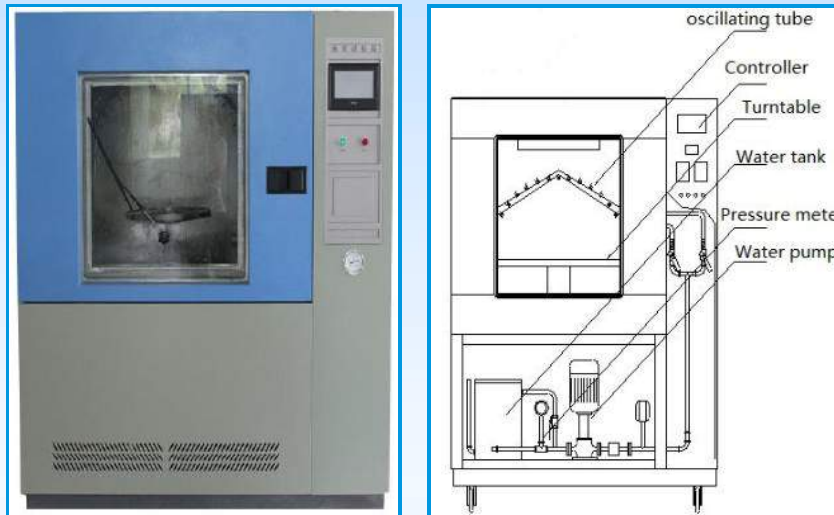


Specification

Model	TFGDW-50	TFGDW-100	TFGDW-150	TFGDW-225
Inner Size (W*D*H)mm	350*320*450	450*400*550	500*500*600	600*500*750
Outer Size (W*D*H)mm	800*800*1570	900*880*1670	950*940*1720	10050*1000*1870
Model	TFGDW-408	TFGDW-500	TFGDW-800	TFGDW-010
Inner Size (W*D*H)mm	800*600*850	700*800*900	800*1000*1000	1000*1000*1000
Outer Size (W*D*H)mm	1250*1100*2020	1250*1200*2020	1500*1485*2180	1520*1500*2360
Temperature Range	-70℃~150℃ (alternating temperature range -55℃~+85℃)			
Temperature Change Rate	5℃/min or 10℃/min or customized			
Temperature Uniformity	±2℃			
Temperature Fluctuation	±0.5℃			
Interior Material	Stainless steel plate(SUS304)			
Exterior Material	Double side steel with painting			
Insulation	Rapid polyurethane foam and glass wool			
Heating System	NiCr alloy heater, independent system			
Refrigeration System	Cascade refrigeration system, Germany imported "Bock" compressor			
Accessories	Two shelves, lead hole 1(optional),recorder(optional)			
Protection Device	Overload protection: compressor over-pressure, overheating, over-current protection, over-temperature protection, phase sequence protection, oil pressure protection ,low voltage protection, etc			
Power Supply	AC380V 50HZ/60HZ			

Rain Test Chamber(IPX3 IPX4)

Water spray ingress test chamber is installed with oscillating tubes to spray water onto products by following IEC60529 standard, it tests and evaluates the protection degree provided by the products' outer shell, this identified protection level against water ingress is called IP code.



Pictures

Controller

Oscillating tube

Spray nozzle



Specification

Model	TR500	TR-1000
Complied Standard	IEC60529	
Internal Dimension	800*800*800	1020*1020*1000
External Dimension	1020*1360*1560	1280*1720*1820
Oscillating Tube Radius	TR500:R375mm TR1000: R500mm	
Spray Hole Diameter	Φ0.4mm	
Distance Between Spray Hole	50mm	
Water Pipe Diameter	Φ16mm	
Oscillating Tube Amplitude	± 60° ± 90° ± 180°(theoretically)	
Turntable Rotation Speed	1r/min(Adjustable)	
Water Pressure Control	Flow meter	
Oscillating Tube Speed	Settable on controller	
Water Supply	Water tank, booster pump, automatic water supply	
Protection Device	Electric leakage, short circuit, motor over-heating, etc	
Power Supply	AC380V 50HZ	

Rain Test Chamber(IPX5 IPX6)

Water ingress protection test chambers test and evaluate the protection degree provided by a product enclosure. the protection level against water ingress is called IP code,IPX5 IPX6 Water Jetting test chamber adopts a nozzle spraying water (IPX5:Φ 6.3mm, IPX6:Φ 12.5mm) against enclosure from every direction which should have no harmful effects, Symor strictly follows IEC60529 standard.



Pictures

Controller



Sample holder



Flowmeter



Specification

Complied Standard	IEC60529
Internal Dimension (mm) W*D*H	800*800*800
Diameter of Turntable (mm)	700
Water Tank Size W*D*H	600*700*1100mm
Nozzle Inner Diameter	IPX5:6.3mm IPX6:12.5mm
Water Flow Rate	IPX5:12.5±0.625 L/min IPX6:100±5 L/min
Main Water-stream @center position	IPX5:2.5m distance from nozzle: circle with appx. 40mm diameter IPX6: 2.5m distance from nozzle: circle with appx. 120mm diameter
Distance between Nozzle and Product Enclosure	2.5-3 m
Testing Duration	At least 3 min
Spray Time on Product Enclosure (per square meter)	Appx. 1min
Power Supply	220V 50HZ

Rain Test Chamber(IPX9)

Symor IPX9K Rain Test Chamber(high Pressure high temperature water jet) is for the test of water from all directions and under high pressure aimed at the enclosure.



Specification

Model	IPX9K (size can be customized as per product size)
Internal dimensions (mm)	1000*1000*1000 W*D*H()
Overall dimensions (mm)	1550*1300*2000 W*D*H
Water Spray Temperature	RT+10 ~ 85°C (Adjustable)
Water Spray Angle	0°, 30°, 60°, 90°
Spray Nozzle	4 nozzles, 30 seconds @each position
Spray Range	30° ± 5°(Single hole); Space 100-200mm
Water Pressure	8000-10000 Kpa (adjustable, set directly, it can display the real-time pressure value)
Water Flow Rate	14L-16L/min
Testing Platform Speed	1~10r/min
Test Platform diameters	300mm(it can be customized as per product size)
Test Platform Load	15kg(it can be customized as per product weight)
Controller	Programmable touch screen controller
	RS232 communication interface
Pressure meter Alarm function	Power protection, timing (to be automatic stop), water protection, motor overheating protection, water temperature overheating automatic drainage, water function
Operating environment	No corrosive gas ,flat, no vibration, avoid direct sunlight, temperature: +5~+35 C; humidity: 45~85% RH
Power Supply	380V 50HZ

Sand and Dust Test Chamber(IP5X IP6X)

Sand and Dust test chambers simulated dust and sand climate condition to evaluate the effects on products in dust-filled environment, in order to test product sealing performance. Dust test chambers are applied in home appliance outer shell, electronic and electric products, coatings, etc.

Symor manufactured sand and dust chambers are specially designed to test products against dust ingress by following IEC60529 standard.



Specification

Model	TDS-500	TDS -800	TDS -1000	TDS -1500
Internal Size(W*D*H)mm	800*800*800	1000*800*1000	1000*1000*1000	1500*1000*1000
External Size(W*D*H)mm	1220*1050*1550	1420*1050*1820	1420*1250*1850	1920*1250*1820
Temperature Range	RT~50℃			
Nominal Wire Diameter	50um			
Nominal Distance Between Wire	75um			
Talcum Powder Amount	2kg ~ 4kg/m ³			
Shock Time	0 ~ 99H59M			
Fan Cycling Time	0 ~ 99H59M			
Specimen Power Socket	Dust-proof socket AC220V 16A			
Controller	Imported programmable controller			
Vacuum System	Equipped with a pressure gauge, air filter, pressure regulator, connecting tube(Vacuum pump as a option)			
Circulating Fan	Closed alloy low noise motor, multi-blade centrifugal fan			
Dust Heating System	Stainless steel mica sheet heating jacket			
Safety Device	Electric leakage, short circuit, Over-temperature, motor overheating Over-current protection/ Power-off memory function for controller			
Power Supply	380V 50HZ			
Remark	Single door or double door as customers' requirement			

Ozone Aging Test Chamber

Ozone Aging Test Chamber suits aging cracking test of non-metal materials and organic materials(e.g. rubber, coating, plastic).Ozone is the killer of rubber cracking. Ozone aging test chamber simulates and strengthens the ozone content in the atmosphere, it can quickly evaluate rubber products' performance against ozone aging to extend rubber products' life span.



Specification

Model	TOL-100	TOL-250	TOL-500	TOL-010
Internal Size(W*D*H, mm)	450*450*500	600*500*750	800*700*900	1000*1000*1000
Outer Size(W*D*H, mm)	870*1050*1560	1020*1120*1810	1250*1320*1950	1450*1600*2080
Temperature Range	0°C ~ 60 °C			
Humidity Range	50%-93%RH			
Temperature Fluctuation	± 0.5°C			
Temperature Uniformity	≤2°C			
Cooling Rate	Ambient temperature to 0°C within 50 min(nonlinear)			
Ozone Concentration	0~500PPHm,0~500PPm,0~1000PPm			
Test Apparatus	Dynamic or Static (Alternative)			
Specimen Holder Rotation	1r/min,360°C			
Air Flow Speed	12~16mm/S			
Specimen Holder Tensile Rate	5%-80%			
Specimen Holder Tensile Frequency	0.5-2 HZ			
Ozone Analysis Meter	Imported analysis meter,4-20mA output,RS232 communication port			
Heater	U type NiCr heater			
Ozone Generator	Imported silent discharge tube			
Refrigeration System	France "TECUMSEH" hermetic compressor			
Safety Protection	Leakage, short circuit, over-temperature, motor overheat, over-current protection			
Power Supply	AC 380V·50HZ			

Walk-in Temperature Humidity Test Chamber

Our manufactured walk-in test chamber can test the performance of electrical and electronic parts, machine parts, Telecommunication, Aerospace flights by simulating the temperature, humidity, light in the atmosphere, these walk-in chambers are in pieces-assembling structure, our technicians will make on-site installation and commissioning, and teach customers how to operate face to face.



Pictures

Temi2700 controller

Work-in room

Walk-in room

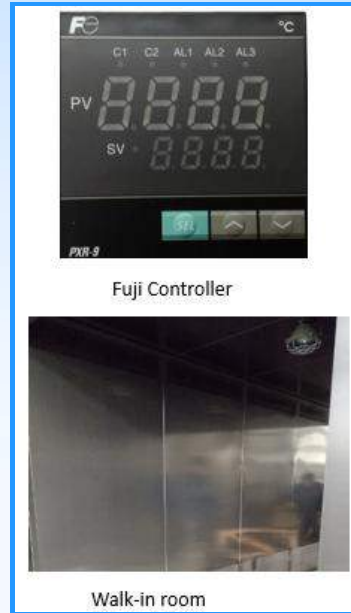


Specification

Model	Customized as required
Internal Size	≥10M3
Temperature Range	-20°C,-40°C,-50°C,-70°C...+100°C (+150 °C)
Humidity Range	20%~98% R.H
Temperature Fluctuation	≤±1°C
Heating Rate	2~3°C/min
Cooling Rate	0.7~1°C/min
Temperature Uniformity	≤±2°C
Controller	TEMI2700 Programmable Touch Screen Controller
Refrigeration	Original Germany imported "Bock" semi-hermetic cascade system compressor
Protection	Leakage and outage, compressor over-pressure, overheat and over-current, water shortage alarm
Power Supply	380V,50/60HZ

Walk-in Aging Test Chamber

Walk-in High Temperature Aging Room test the products' adaptability to high temperature environment, widely used in Electronic, Telecommunication, Plastic, Automobiles. it can evaluate whether the products' quality match regulated standards, and help manufacturers improve accordingly.



Specification

Model	Customized as required
Temperature Control Range	RT ~ +80 °C
Temperature Fluctuation	±0.5°C
Temperature uniformity	≤ 3°C
Temperature .bias	≤ ±2°C
Heating Rate	1.0~3.0°C(as required)
Outer Shell Material	Color steel plates
Inner Material	Stainless steel or galvanized steel or as required
Insulation Material	Superfine fiberglass wool or PU foam
Base	Skid resistant steel plates or as required
Heating System	Stainless steel electric heater
Controller	Japan "Fuji" controller
Standard Accessories	Glass window, lighting
Protection Device	Over-temperature protection, leakage protection ,fan overload protection, phase sequence protection
Optional Accessories	Temperature recorder, smoke alarm, temperature test hole, movable slope platform, etc
Power Supply	220V/380V,50/60HZ

200°C Hot Air Dry Oven

Hot Air Dry Ovens can dry or temper electronic components, materials, tempering, high temperature aging ,preheating and sterilization in industrial enterprises, laboratories and scientific research institutes.



Feature

- .Outer shell made by reinforced steel with painting; working chamber made by anti-corrosion stainless steel SUS#304
- .Intelligent PID control, with over-temperature alarm. timing range within 0~9999min
- .Hot air circulation system composed of Germany imported low-noisy air blower and optimal air duct which ensure uniform temperature distribution
- .Double layers of glass door, large transparent window to observe specimen
- .Forced air convection

Specification

Model	TG-9023A	TG-9053A	TG-9123A	TG-9203A
Consumed Power	530W	800W	1300W	1700W
Capacity	20L	50L	120L	200L
Internal Size(W*D*H,MM)	300*280*280	420*350*350	550*350*550	600*550*645
External Size(W*D*H,MM)	586*440*445	706*520*520	835*540*720	885*720*830
Gross Weight	38KGS	55KGS	75KGS	108KGS
Shelves	2pcs			
Working Chamber	Stainless steel sus# 304			
Power Supply	220V 50/60HZ			
Temperature Range	RT+10 °C ~ +200 °C			
Timing Range	0~9999min			
Temperature Fluctuation	± 1°C			
Temperature Precision	0.1°C			

Options

- .30 Steps Programmable temperature controller
- .Temperature record printer
- .RS485 port and communication

300°C Hot Air Dry Oven

Hot Air Dry Ovens can dry or temper electronic components, materials, tempering, high temperature aging ,preheating and sterilization in industrial enterprises, laboratories and scientific research institutes.



Feature

- .Outer shell made by reinforced steel with painting, working chamber made by anti-corrosion stainless steel #304
- .Intelligent PID control, with over-temperature alarm. timing range within 0~9999min
- .Hot air circulation system composed of Germany low-noisy air blower and air duct to ensure uniform temperature.
- .Double layers of glass door, large transparent window to observe specimen
- .Forced air convection

Specification

Model	TG-9036A	TG-9076A	TG-9146A	TG-9246A
Power Consumption	950W	1400W	1600W	2600W
Capacity	30L	70L	140L	240L
Internal Size(W*D*H,MM)	300*300*350	400*400*450	450*550*550	500*600*750
External Size(W*D*H,MM)	455*485*700	555*565*790	645*695*900	690*755*1105
Gross Weight	47KGS	67KGS	90KGS	125KGS
Model	TG-9426A	TG-9626A	TG-9646A	TG-9926A
Power Consumption	3500W	5700W	6000W	7000W
Capacity	420L	620L	640L	960L
Internal Size(W*D*H,MM)	600*550*1300	800*600*1300	800*800*1000	1000*600*1600
External Size(W*D*H,MM)	820*730*1750	1020*785*1750	940*980*1390	1140*780*1990
Gross Weight	215KGS	257KGS	240KGS	320KGS
Shelves	For TG-9036A,9076A,9146A,9246A 2 PCS; For TG-9426A,9626A,9646A 3PCS; For TG-9926A 4PCS			
Working Chamber	Stainless steel 304			
Power Supply	For TG-9036A,9076A,9146A,9246A 220V 50/60HZ;For TG-9426A,9626A,9646A,9926A 380V50/60HZ			
Temperature Range	RT+10°C ~ +300°C			
Timing Range	0~9999min			
Temperature Fluctuation	± 1°C			
Temperature Precision	0.1°C			

Options

- . 30 Steps Programmable temperature controller
- . Temperature record printer
- . RS485 communication port

Vacuum Dry Oven

Vacuum Dry Oven can dry thermo-sensitive, oxidative materials under vacuum condition in industrial enterprises, laboratories, and scientific research institutes.



Feature

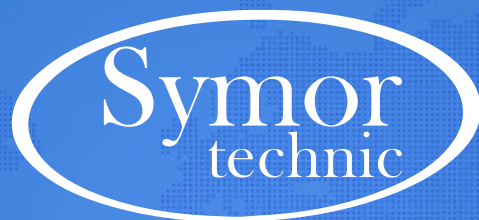
- .Minimize heating time, 50% less than traditional vacuum oven
- .Outer shell made by reinforced steel with painting, working chamber made by stainless steel #304
- .Intelligent PID control, with over-temperature alarm
- .Double layers of bulletproof glass door
- .Designed for drying gently with its homogeneous temperature distribution

Specification

Model	TZF-6020	TZF-6030	TZF-6050	TZF-6090	TZF-6210
Consumed Power	300W	400W	1400W	1200W	2160W
Capacity	20L	30L	50L	90L	210L
Internal Size(W*D*H,MM)	300*300*275	320*320*300	415*370*345	450*450*450	560*590*640
External Size(W*D*H,MM)	580*420*450	610*455*485	710*520*535	615*605*1245	725*735*1435
Gross Weight	45KGS	47KGS	78KGS	175KGS	275KGS
Shelves	For TZF-6020,6030 1PCS;For TZF-6050,6090 2 PCS; For TZF-6210 3PCS				
Working Chamber	Stainless steel 304				
Vacuum Degree	<133Pa				
Power Supply	220V 50/60HZ				
Temperature Range	For TZF-6020,6030 RT+10 °C ~ +200 °C, For TZF-6050,6090,6210 RT+10 °C ~ +250 °C				
Temperature Fluctuation	± 1°C				
Temperature Precision	0.1°C				
Atmosphere	Internal heating				
Remark	Model TZF-6020,6030,6050 with 2XZ-2 vacuum pump as option Model TZF-6090 and 6210 is with 2XZ-4 vacuum pump				

Options

- .Vacuum pump 2XZ-2
- .Inert gas port



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